

Launch Mission Execution Forecast

Mission: Falcon 9 NASA Crew-1

Issued: 12 Nov 2020 / 0800L (1300Z)

Valid: 14 Nov 2020 / 1944 – 1954L (15/0044 – 0054Z)



Forecast Discussion: Tropical Storm Eta has made landfall just south of Cedar Key, Florida. Eta will accelerate northeastward today and exit Florida near Jacksonville shortly after noon as it merges with a mid-latitude system along the Eastern Seaboard. Conditions will gradually improve through the day across the Space Coast, with rain chances and winds dropping off significantly after sunset. On Friday, a weak frontal boundary will push through the Spaceport, clearing away much of the cloud cover and turning winds northerly. This boundary will likely begin moving back northward on Saturday as winds become easterly, developing a few showers. The primary launch weather concern Saturday evening will be the cumulus clouds and showers along the boundary.

On Sunday, conditions remain much the same as the next frontal system moves into the Southeastern U.S., adding instability to the stalled boundary over Central Florida. The primary launch weather concerns for Sunday remain the showers and cumulus clouds associated with the boundary.

	Probability of Violating Weather Constraints									
Day	30%	30% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation								
	Weather Conditions							Additional Risk Criteria		
aunch	Weather/Visi	bility:	Isold. Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
تّ	Temp/Humidity:		78°F / 82%	Cumulus	Scattered	3,000	8,000	Booster Recovery Weather:	Moderate	
	Liftoff Winds (200') : 080° 12 - 17 mph							Solar Activity:	Low	
>	Probability of Violating Weather Constraints									
40% Primary Concerns: Cumulus Cloud Rule, Flight Through Pre								n		
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility:		Isold. Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24-	Temp/Humidity:		77°F / 85%	Cumulus	Broken	3,000	12,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200'):		130° 7 - 12 mph					Solar Activity:	Low	
Note:	The Probability o	of Violation	on (POV) is the chance tha	t a Lightning La	unch Commit Cr	iteria (LLC)	C) or certain us	ser constraints (surface winds, preci	pitation, and	

temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.

Next Forecast Will Be Issued 13 Nov 2020